

GenCore version 4.5
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OM protein - protein search, using sw model

Run on: January 7, 2002, 15:49:09 ; Search time 101.88 Seconds

(without alignments)
34.394 Million cell updates/sec

Title: US-08-569-749-8

Perfect score: 267

Sequence: 1 LAKAGFYIIGPDVACFACGKLSNMEPKDNAMSEHLRHPKCPF 46

Scoring table: BIOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 219241 seqs, 76174552 residues

Total number of hits satisfying chosen parameters: 219241

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Listing first 45 summaries

PIR68:*
1: p1r1:*
2: p1r2:*
3: p1r3:*
4: p1r4:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	264	98.9	604	2	S68449 apoptos is inhibito
2	254	95.1	358	2	JC5964 apoptos is inhibito
3	248	92.9	618	2	S68450 apoptos is inhibito
4	182	68.2	497	2	S68454 apoptos is inhibito
5	145	54.3	496	2	S68452 apoptos is inhibito
6	145	54.3	487	2	S69545 apoptos is inhibito
7	141	52.6	1232	2	A55478 neuronal apoptos is
8	138	51.7	1447	2	T42628 inhibitor of apopt
9	135	50.6	268	2	T10304 apoptos is-inhibiti
10	135	50.6	268	2	A53989 inhibitor-of apopt
11	131	49.1	275	2	A45679 BIR repeat contain
12	122.5	45.9	4845	3	JC7568 kidney inhibitor o
13	121	45.3	298	3	JC7568 kidney inhibitor o
14	112	41.9	208	2	T03183 cutl7 protein - fl
15	103	38.6	997	2	T43523 ORF MSV248 probabl
16	100	37.5	150	2	T84809 apoptos is inhibito
17	98	36.7	292	2	T41772 IAP1 orf7 - Bomby
18	95	35.6	292	2	T41772 IAP1 orf7 - Bomby
19	93	34.8	286	2	D36828 apoptos is-inhibiti
20	90	33.7	275	2	T10310 ORF MSV242 probabl
21	74.5	27.9	329	2	T28403 apoptos is inhibito
22	62.5	25.5	155	2	T37471 apoptos is inhibito
23	62.5	25.5	223	2	S16652 hypothetical prote
24	60	22.5	249	2	T41814 IAP2 orf1 - Bomby
25	60	22.5	249	2	T41814 IAP2 orf1 - Bomby
26	59	22.1	355	2	C64549 conserved hypotet
27	59	22.1	355	2	G71958 hypothetical prote
28	58	21.7	234	2	T30427 hupf protein - Rho
29	57.5	21.5	278	1	S25690

30	56.5	21.2	724	2	C49423 semaphorin II prec
31	56.5	21.2	2236	1	OZPF rudimentary protei
32	56	21.0	1004	2	JH0470 Na+/K+-exchanging
33	55	20.6	313	2	T02534 hypothetical prote
34	55	20.6	462	2	T47287 hypothetical prote
35	55	20.6	489	2	T47015 hypothetical prote
36	55	20.6	1493	2	S54587 C18 protein - yea
37	54.5	20.4	346	2	A81807 fumarate hydratase
38	54	20.2	181	2	E36794 hypothetical prote
39	54	20.2	606	2	T13152 WDRI protein - hum
40	54	20.2	843	1	A27340 complement C7 prec
41	53.5	20.0	172	2	T34035 env polypeptin -
42	53.5	20.0	563	1	VCWVW7 zinc finger, C3HC4
43	53.5	20.0	741	2	T40095 ring-finger, C3HC4
44	53	19.9	838	2	A48440 ATP-dependent heli
45	53	19.9	1309	2	F82207

ALIGNMENTS

RESULT 1
S68449 apoptos is inhibito hup-1 - human
C:Species: Homo sapiens (man)
C:Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 21-Jul-2000
C:Accession: S68449
R:Liston, P.; Roy, N.; Tamai, K.; Lefebvre, C.; Baird, S.; Cherton-Horvat, G.; Faraha
Nature 379, 349-353, 1996
A:Title: Suppression of apoptosis in mammalian cells by NAIP and a related family of
A:Reference number: A58182; MUID:96149249
A:Accession: S68449
A>Status: nucleic acid sequence not shown
A:Molecule type: mRNA
A:Residues: 1-604 <LRS>
A:Cross-References: EMBL:U45878; NID:q1184315; PIDD:AA050371.1; P1D:q1184316
C:Function:
A:Description: apoptotic suppressor
C:Superfamily: RING finger homology
C:Keywords: apoptosis; zinc finger
F:553-597/Domain: RING finger homology <RNG>

Query Match 98.9%; Score 264; DB 2; Length 604;
Best local Similarity 97.8%; Pred. No. 8.3e-25;
Matches 45; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY 1 LAKAGFYIIGPDVACFACGKLSNMEPKDNAMSEHLRHPKCPF 46
DB 189 LAKAGFYIIGPDVACFACGKLSNMEPKDNAMSEHLRHPKCPF 234

RESULT 2
JC5964 apoptos is inhibito - pig
C:Species: Sus scrofa domestica (domestic pig)
C:Date: 04-Sep-1998 #sequence_revision 04-Sep-1998 #text_change 02-Sep-2000
C:Accession: JC5964
R:Stehlik, C.; de Martin, R.; Binder, B.R.; Lipp, J.
Biochem. Biophys. Res. Commun. 243, 827-832, 1998
A:Title: Cytokine induced expression of porcine inhibitor of apoptosis protein (Iap)
A:Reference number: JC5964; MUID:98162622
A:Accession: JC5964
A>Status: preliminary
A:Molecule type: DNA
A:Residues: 1-358 <STR>
A:Cross-References: DB:U79142; NID:q2957174; PIDD:AA039171.1; P1D:q2957175
C:Superfamily: RING finger homology
F:307-351/Domain: RING finger homology <RRN>

Query Match 95.1%; Score 254; DB 2; Length 358;
Best local Similarity 93.5%; Pred. No. 8.7e-24;

Matches 43: Conservative 2; Mismatches 1; Indels 0; Gaps 0;

OY 1 LAKAGFYIIGPDRVACFACGCKLSNWEPRKDNAMSEHLRHPKCP 46
 |||||
 DB 24 LAKAGFYIIGPDRVACFACGCKLSNWEPRKDNAMSEHLRHPKCP 69

RESULT 3
 S68450
 Apoptosis inhibitor hlap-2 - human
 C:Species: Homo sapiens (man)
 C>Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 21-Jul-2000
 C:Accession: S68450
 R:Liston, P.; Roy, N.; Tamai, K.; Lefebvre, C.; Baird, S.; Cherton-Horvat, G.; Farahani, M.
 A>Title: Suppression of apoptosis in mammalian cells by NAIP and a related family of IAP
 A:Reference number: A58182; MUID:96149249
 A:Accession: S68450
 A>Status: nucleic acid sequence not shown
 A:Molecule type: mRNA
 A:Residues: 1-618 <LIS>
 A:Cross-references: EMBL:U45879; NID:q1184317; PION:AAC50372.1; PID:q1184318
 A:Function: Apoptotic suppressor
 C:Superfamily: RING finger homology
 C:Keywords: apoptosis; zinc finger
 F:567-611/Domain: RING finger homology <RNG>

Query Match
 Best Local Similarity 92.9%; Score 248; DB 2; Length 618;
 Matches 42: Conservative 2; Mismatches 2; Indels 0; Gaps 0;

OY 1 LAKAGFYIIGPDRVACFACGCKLSNWEPRKDNAMSEHLRHPKCP 46
 |||||
 DB 204 LAKAGFYIIGPDRVACFACGCKLSNWEPRKDNAMSEHLRHPKCP 249

RESULT 4
 S69544
 Apoptosis inhibitor IAP homolog - human
 C:Species: Homo sapiens (man)
 C>Date: 06-Dec-1996 #sequence_revision 13-Mar-1997 #text_change 17-Nov-2000
 C:Accession: S69544; S68451
 R:Druckert, C.S.; Nava, V.E.; Gedrich, R.W.; Clem, R.J.; van Dongen, J.L.; Giffillan, M.C.
 EMBL J. 15, 2685-2694, 1996
 A>Title: A conserved family of cellular genes related to the baculovirus iap gene and er
 A:Reference number: S69544; MUID:96256286
 A:Accession: S69544
 A>Status: preliminary; nucleic acid sequence not shown
 A:Molecule type: mRNA
 A:Residues: 1-497 <DUC>
 A:Cross-references: EMBL:U32974; NID:q1016687; PION:AAC50518.1; PID:q1016688
 R:Liston, P.; Roy, N.; Tamai, K.; Lefebvre, C.; Baird, S.; Cherton-Horvat, G.; Farahani, M.
 A>Title: Suppression of apoptosis in mammalian cells by NAIP and a related family of IAP
 A:Reference number: A58182; MUID:96149249
 A:Accession: S68451
 A>Status: nucleic acid sequence not shown
 A:Molecule type: mRNA
 A:Residues: 1-161, C, 163-422, O, 424-497 <LIS>
 A:Cross-references: EMBL:U45880; NID:q1184319; PION:AAC50373.1; PID:q1184320
 C:Genetics: 11p
 A:Gene: 11p
 C:Function: Apoptotic suppressor
 C:Superfamily: Apoptosis inhibitor IAP homology; RING finger homology
 C:Keywords: apoptosis; zinc finger
 F:446-490/Domain: RING finger homology <RNG>

Query Match
 Best Local Similarity 69.2%; Score 182; DB 2; Length 497;
 Matches 25: Conservative 4; Mismatches 16; Indels 0; Gaps 0;

Matches 32: Conservative 1; Mismatches 13; Indels 0; Gaps 0;

OY 1 LAKAGFYIIGPDRVACFACGCKLSNWEPRKDNAMSEHLRHPKCP 46
 |||||
 DB 184 LAKAGFYIIGPDRVACFACGCKLSNWEPRKDNAMSEHLRHPKCP 229

RESULT 5
 S68452
 Apoptosis inhibitor diap - fruit fly (Drosophila melanogaster)
 C:Species: Drosophila melanogaster
 C>Date: 17-Jul-1998 #sequence_revision 17-Jul-1998 #text_change 17-Nov-2000
 C:Accession: S68452; S78528
 R:Liston, P.; Roy, N.; Tamai, K.; Lefebvre, C.; Baird, S.; Cherton-Horvat, G.; Farahani, M.
 A>Title: Suppression of apoptosis in mammalian cells by NAIP and a related family of
 A:Reference number: A58182; MUID:96149249
 A:Accession: S68452
 A>Status: nucleic acid sequence not shown
 A:Molecule type: mRNA
 A:Residues: 1-496 <LIS>
 A:Cross-references: EMBL:U45881; NID:q1184313; PION:AAC46988.1; PID:q1184314
 R:Baird, S.D.
 A>Title: Submitted to the EMBL Data Library, January 1996
 A:Reference number: S78528
 A:Accession: S78528
 A:Molecule type: mRNA
 A:Residues: 1-36, AT, 37, K, 39, L, 41-44, H, 46-58, O, 60-412, A, 414-427, A, 429-49
 A:Cross-references: EMBL:U45881; NID:q1184313; PION:AAC46988.1; PID:q1184314
 C:Genetics: 11p
 A:Gene: 11p
 C:Function: Apoptotic suppressor
 C:Superfamily: Apoptosis inhibitor IAP homology; RING finger homology
 C:Keywords: apoptosis; zinc finger
 F:445-489/Domain: RING finger homology <RNG>

Query Match
 Best Local Similarity 54.3%; Score 145; DB 2; Length 496;
 Matches 25: Conservative 4; Mismatches 16; Indels 0; Gaps 0;

OY 1 LAKAGFYIIGPDRVACFACGCKLSNWEPRKDNAMSEHLRHPKCP 45
 |||||
 DB 131 LAKAGFYIIGPDRVACFACGCKLSNWEPRKDNAMSEHLRHPKCP 175

RESULT 6
 S69545
 Apoptosis inhibitor IAP homolog - fruit fly (Drosophila melanogaster)
 C:Species: Drosophila melanogaster
 C>Date: 06-Dec-1996 #sequence_revision 13-Mar-1997 #text_change 21-Jan-2000
 C:Accession: S69545
 R:Druckert, C.S.; Nava, V.E.; Gedrich, R.W.; Clem, R.J.; van Dongen, J.L.; Giffillan, M.C.
 EMBL J. 15, 2685-2694, 1996
 A>Title: A conserved family of cellular genes related to the baculovirus iap gene and
 A:Reference number: S69544; MUID:96256286
 A:Accession: S69545
 A>Status: preliminary; nucleic acid sequence not shown
 A:Molecule type: mRNA
 A:Residues: 1-497 <DUC>
 A:Cross-references: EMBL:U32373; NID:q1019116; PION:AAC47155.1; PID:q1019117
 C:Genetics: 11p
 A:Gene: 11p
 C:Superfamily: Apoptosis inhibitor IAP homology; RING finger homology
 C:Keywords: apoptosis; zinc finger
 F:446-490/Domain: RING finger homology <RNG>

Query Match
 Best Local Similarity 54.3%; Score 145; DB 2; Length 497;
 Matches 25: Conservative 4; Mismatches 16; Indels 0; Gaps 0;

OY 1 LAKAGFYIIGPDRVACFACGCKLSNWEPRKDNAMSEHLRHPKCP 45

Db 133 LAKAGFYTLNLDHVKYWCNGVIAKKEKNDNAFEHRRFPQCP 177

RESULT 7
A:Accession: A53478
neutonal apoptosis inhibitory protein - human
N:Alternate names: NAIP
C:Species: Homo sapiens (man)
C:Date: 05-Jan-1996 #sequence_revision 05-Jan-1996 #text_change 02-Feb-2001
A:Accession: A53478
R:Roy, N.; Mahadevan, M.S.; McLean, M.; Shuttler, G.; Yargali, Z.; Farahani, R.; Baird, S.
d, T.O.; de Jong, P.J.; Suth, L.; Ikeda, J.E.; Korneluk, R.G.; Mackenzie, A.
Cell 80, 167-178, 1995
A:Title: The gene for neuronal apoptosis inhibitory protein is partially deleted in ind
A:Reference number: A53478; MUID:93112344
A:Accession: A53478
A:Molecule type: mRNA
A:Residues: 1-1232 <NOY>
A:Cross-references: GB:019251
C:Genetics:
A:Gene: GDB:SMA6; SMA
A:Cross-references: GDB:120378; OMIM:600354; OMIM:253300
A:Map position: 5q12.2-5q13
C:Keywords: apoptosis; ATP; glycoprotein; nucleotide binding; P-loop; transmembrane prot
E:94-110/Domain: transmembrane #status predicted <TM1>
E:470-477/Region: nucleotide-binding motif A (P-loop)
E:479-496/Domain: transmembrane #status predicted <TM2>
F:476/Binding site: ATP (lys) #status predicted
F:618,632,823,923,1035/Binding site: carbohydrate (Asn) (covalent) #status predicted

Query Match 52.8%; Score 141; DB 2; Length 1232;
Best Local Similarity 52.2%; Pred. No. 2.3e-09;
Matches 24; Conservative 6; Mismatches 16; Indels 0; Gaps 0;

Db 299 LAKAGFYTLNLDHVKYWCNGVIAKKEKNDNAFEHRRFPQCP 344

RESULT 8
T42628
neutonal apoptosis inhibitory protein 2 - mouse
C:Species: Mus musculus (house mouse)
C:Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 11-Jan-2000
A:Accession: T42628
R:Yargali, Z.; Diez, E.; Gros, P.; Mackenzie, A.
Mamm. Genome 10, 761-763, 1999
A:Title: CDNA cloning and the 5' genomic organization of Naip2, a candidate gene for mur
A:Reference number: Z22179; MUID:99315342
A:Accession: T42628
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1-1447 <YAR>
A:Cross-references: EMBL:AF102871; NID:93860228; PID:93860229; PIDN:AACT3002.1
C:Genetics:
A:Gene: Naip2

Query Match 51.7%; Score 138; DB 2; Length 1447;
Best Local Similarity 52.2%; Pred. No. 6.3e-09;
Matches 24; Conservative 5; Mismatches 17; Indels 0; Gaps 0;

Db 181 LSAAGFYTLNLDHVKYWCNGVIAKKEKNDNAFEHRRFPQCP 226

RESULT 9
T10304
inhibitor of apoptosis protein 3 - Orgyia pseudotsugata nuclear polyhedrosis virus
C:Species: Orgyia pseudotsugata nuclear polyhedrosis virus, Opmpv

C:Date: 16-Jul-1999 #sequence_revision 16-Jul-1999 #text_change 15-Sep-2000
A:Accession: T10304
R:Ahrens, C.A.; Russell, R.R.; Funk, C.J.; Evans, J.; Haywood, S.; Rohmann, G.F.
Virology 229, 361-369, 1997
A:Title: The sequence of the Orgyia pseudotsugata multineucleocapsid nuclear polyhedro
A:Reference number: Z17011; MUID:97271300
A:Accession: T10304
A:Status: preliminary; translated from GB/EMBL/DBJ
A:Molecule type: DNA
A:Residues: 1-266 <AHR>
A:Cross-references: EMBL:U75930; NID:92934903; PIDN:AA59034.1; PID:91911281
C:Superfamily: viral apoptosis inhibitor IAP; RING finger homology
F:217-261/Domain: RING finger homology <RRN>

Query Match 50.6%; Score 135; DB 2; Length 268;
Best Local Similarity 45.7%; Pred. No. 3e-09;
Matches 21; Conservative 8; Mismatches 17; Indels 0; Gaps 0;

Db 132 LAEAGFYTLNLDHVKYWCNGVIAKKEKNDNAFEHRRFPQCP 177

RESULT 10
A53989
apoptosis-inhibiting protein - Orgyia pseudotsugata multicapsid nuclear polyhedrosis
C:Species: Orgyia pseudotsugata multicapsid nuclear polyhedrosis virus, Opmpv
C:Date: 15-Oct-1994 #sequence_revision 15-Oct-1994 #text_change 15-Sep-2000
A:Accession: A53989
R:Birbaum, M.J.; Clem, R.J.; Miller, L.K.
J. Virol. 68, 2521-2528, 1994
A:Title: An apoptosis-inhibiting gene from a nuclear polyhedrosis virus encoding a po
A:Reference number: A53989; MUID:94187094
A:Accession: A53989
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-268 <BIR>
A:Cross-references: GB:122564; NID:9456111; PIDN:AA802610.1; PID:9456114
A:Note: authors translated the codon TGG for residue 28 as Tyr, GAC for residue 50 as
C:Superfamily: viral apoptosis inhibitor IAP; RING finger homology
F:217-261/Domain: RING finger homology <RRN>

Query Match 50.6%; Score 135; DB 2; Length 268;
Best Local Similarity 45.7%; Pred. No. 3e-09;
Matches 21; Conservative 8; Mismatches 17; Indels 0; Gaps 0;

Db 132 LAEAGFYTLNLDHVKYWCNGVIAKKEKNDNAFEHRRFPQCP 177

RESULT 11
A45679
inhibitor-of-apoptosis polypeptide (IAP) - Cydia pomonella granulosis virus Cpvy
C:Species: Cydia pomonella granulosis virus Cpvy
C:Date: 21-Sep-1993 #sequence_revision 25-Apr-1997 #text_change 15-Sep-2000
A:Accession: A45679
R:Crook, N.E.; Clem, R.J.; Miller, L.K.
J. Virol. 67, 2168-2174, 1993
A:Title: An apoptosis-inhibiting baculovirus gene with a zinc finger-like motif.
A:Reference number: A45679; MUID:93188168
A:Accession: A45679
A:Status: preliminary
A:Molecule type: DNA
A:Residues: 1-275 <CRO>
A:Cross-references: GB:105494; NID:9289583; PIDN:AAA43835.1; PID:9289584
A:Note: sequence extracted from NCBI backbone (NCBIT:127014, NCBIT:127015)
C:Superfamily: viral apoptosis inhibitor IAP; RING finger homology

Query Match 49.1%; Score 131; DB 2; Length 275;

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